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1. T13.01: Advanced Propulsion System Ground Test and Launch Technology

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:SSCParticipating Center(s):MSFC,KSCRocket propulsion development is enabled by rigorous ground testing to mitigate the risk inherent in spaceflight. As next generation propulsion systems are developed matching/related advancements in test technologies to appropriately test the new propulsion systems as well as more overall advancements in test technologies are also required. This subto ...

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2. T13: Ground and Launch Systems Processing

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Ground and Launch Systems Processing The goal of this topic is to provide a flexible and sustainable US capability for ground processing as well as launch, mission, and recovery operations to significantly increase safe access to space. The Ground and Launch Systems Processing topic consists of four technology subareas, including: technologies to optimize the operational life-cycle, environmental ...

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3. T3.01: Energy Harvesting Technology Development

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:SSCParticipating Center(s):JSC,KSC,GRCThe NRC has identified a NASA Top Technical Challenge as the need to "Increase Available Power". Additionally, a NASA Grand Challenge is "Affordable and Abundant Power" for NASA mission activities. As such, novel energy harvesting technologies are critical toward supporting future power generation systems to begin to meet these challenges. This sub ...

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4. T3: Space Power and Energy Storage

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Space Power and Energy Storage is divided into four technology areas: power generation, energy storage, power management and distribution, and cross cutting technologies. NASA has many unique needs for space power and energy storage technologies that require special technology solutions due to extreme environmental conditions. These missions would all benefit from advanced technologies that provid ...

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5. T4.01: Dynamic Servoelastic (DSE) Network Control, Modeling and Optimization

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:AFRCParticipating Center(s):LaRC,JPL,ARCThis subtopic addresses advanced

control-oriented techniques for dynamic servoelastic (DSE) terrestrial, planetary, and space environment flight systems using distributed network sensor and control systems. Methods include modeling, simulation, optimization and stabilization of DSE systems to actively and/or adaptively control structural dynamic ...

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6. [T4.02: Regolith Resource Robotic](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:KSCParticipating Center(s):ARC,LaRCUsing resources in space is the first step towards human self-sufficiency while expanding its presence into the Solar System. The use of robotics for In-Situ Resource Utilization (ISRU) in outer space on various planetary bodies is essential since ISRU requires large quantities of local regolith that must be acquired and processed by capable machines ...

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7. [T4: Robotics, Tele-Robotics and Autonomous Systems](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

The topic for Robotics, Tele-Robotics and Autonomous Systems, consists of seven technology subareas: Sensing and Perception; Mobility; Manipulation; Human-Systems Integration; Autonomy; Autonomous Rendezvous and Docking (AR&D); and Robotics, Tele-Robotics and Autonomous Systems Engineering. Robotics, Tele-Robotics and Autonomous Systems supports NASA space missions with the development of new capa ...

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8. [T5.01: Autonomous Communications Systems](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:GRCParticipating Center(s):GSFCFuture missions require networked comms systems that can support greater levels of autonomy and possess cognizance of the local environmental conditions and awareness of the state of other assets in the comms network for enhanced reach back and data delivery. ACS offer potential to improve overall system performance through automated sensing of local and ...

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9. [T5: Communication and Navigation](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Communications and Navigation Systems, consists of six technology subareas: optical communication and navigation; radio frequency communication; internetworking; position, navigation and timing; integrated technologies; and revolutionary concepts. Communication links are the lifelines to spacecraft, providing commanding, telemetry, and science data transfers as well as navigation support. Therefor ...

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10. [T6.01: Gas Sensing Technology Advancements for Spacesuits](#)

Release Date: 11-14-2014Open Date: 11-14-2014Close Date: 01-28-2015

Lead Center:JSCSpace suit life support systems are critically necessary for the successful support of the International Space Station (ISS) and future human space exploration missions for in-space micro-gravity EVA and planetary surface operations. NASA has experienced a history of failures with the existing carbon dioxide (CO2) gas sensor for the current Extravehicular Mobility Unit (EMU) due to ...

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